

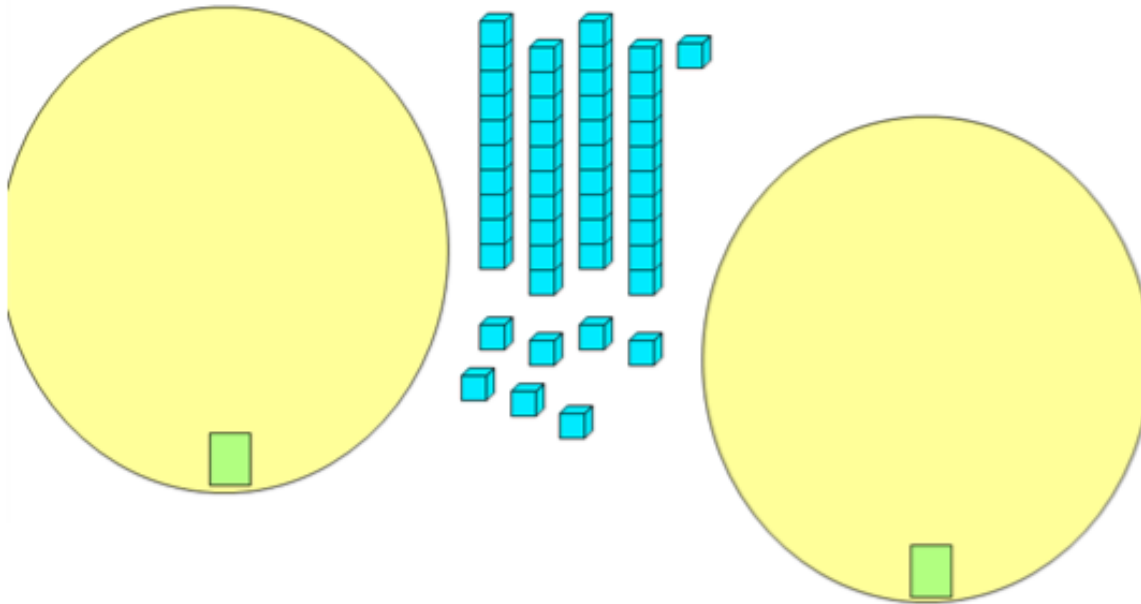
Learning Goal: Dividing larger numbers

Strategy: Long division using known multiplication facts

This strategy allows students to **use the multiplication facts they know** to solve the problem.

Students use those known facts to **find how many would be in each group.**

Find $48 \div 2 =$



Students can use whatever basic multiplication facts they know to solve the division question, rather than needing to know specific facts.

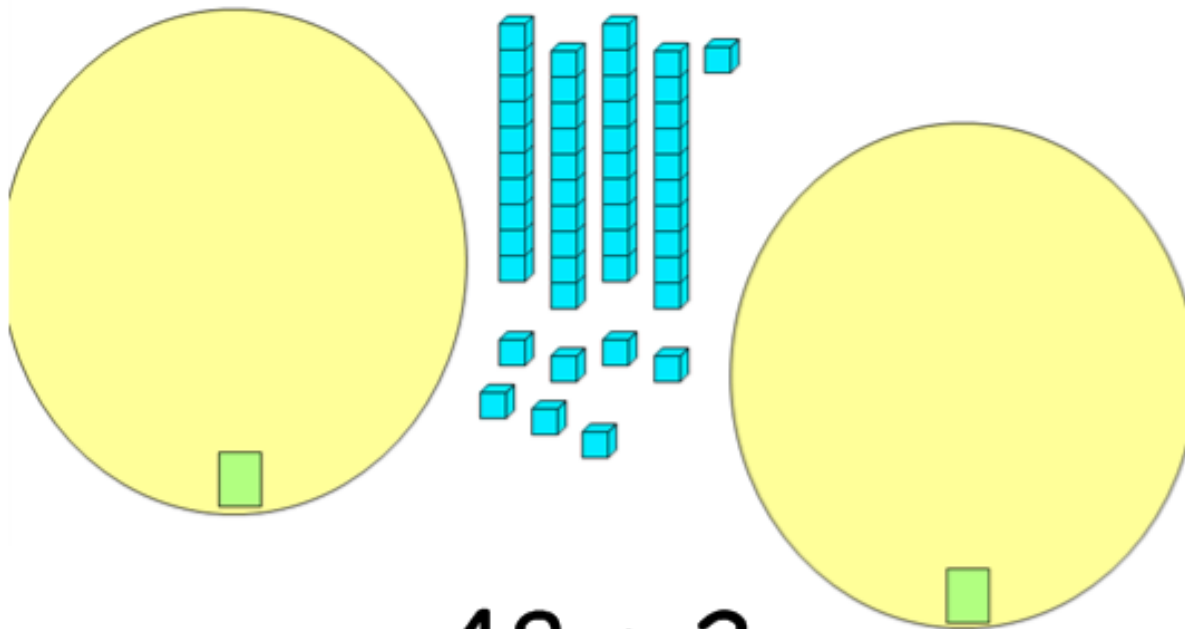
The strategy is based on an **equal sharing model** of division.

Learning Goal: Dividing larger numbers

Strategy: Long division using known multiplication facts

Find $48 \div 2 =$

Division means
sharing a number
into equal groups.



With this question we
will share 48 into 2
equal groups.

$$48 \div 2$$

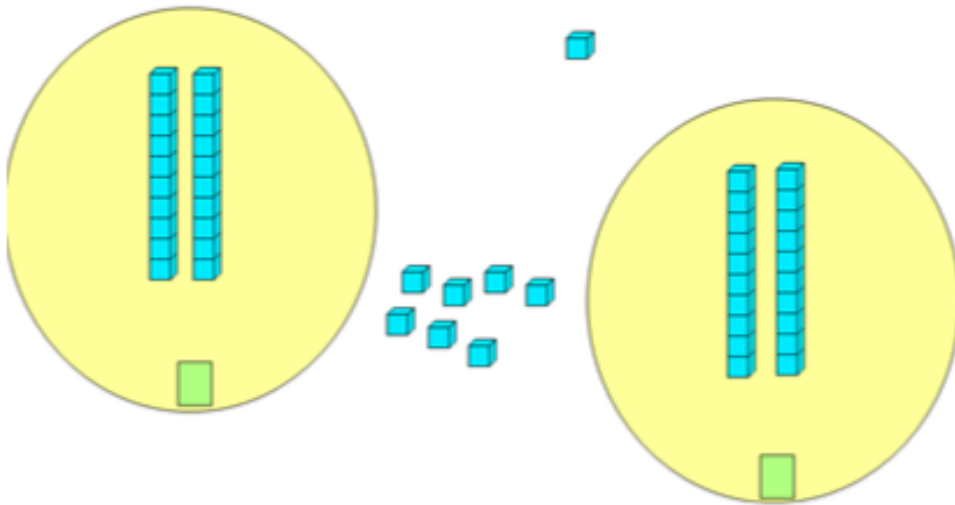
The number shared
is the dividend.

The number of groups
is the divisor.

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Strategy: Long division using known multiplication facts

Find $48 \div 2 =$



I subtract
40 from my
total.

$2 \overline{) 48}$

$= 40$

8

20×2

2 groups

I could put 20
in each group.

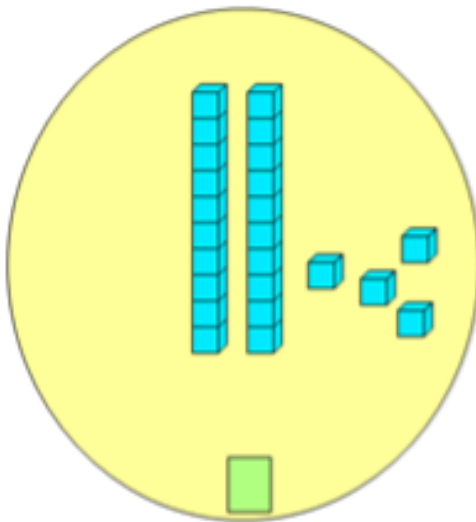
I have 8 left
to divide.

$2 \times 20 = 40$ because
 $2 \times 2 = 4$ and I
adjust the place
value.

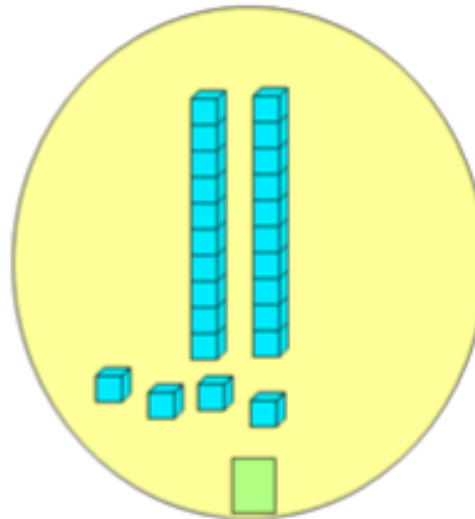
Learning Goal: Dividing larger numbers

Strategy: Long division using known multiplication facts

Find $48 \div 2 =$



+



2 groups

$$\begin{array}{r} 2 \overline{) 48} \\ \underline{- 40} 20 \times 2 \\ 8 \\ \underline{- 8} 4 \times 2 \\ 0 \end{array}$$

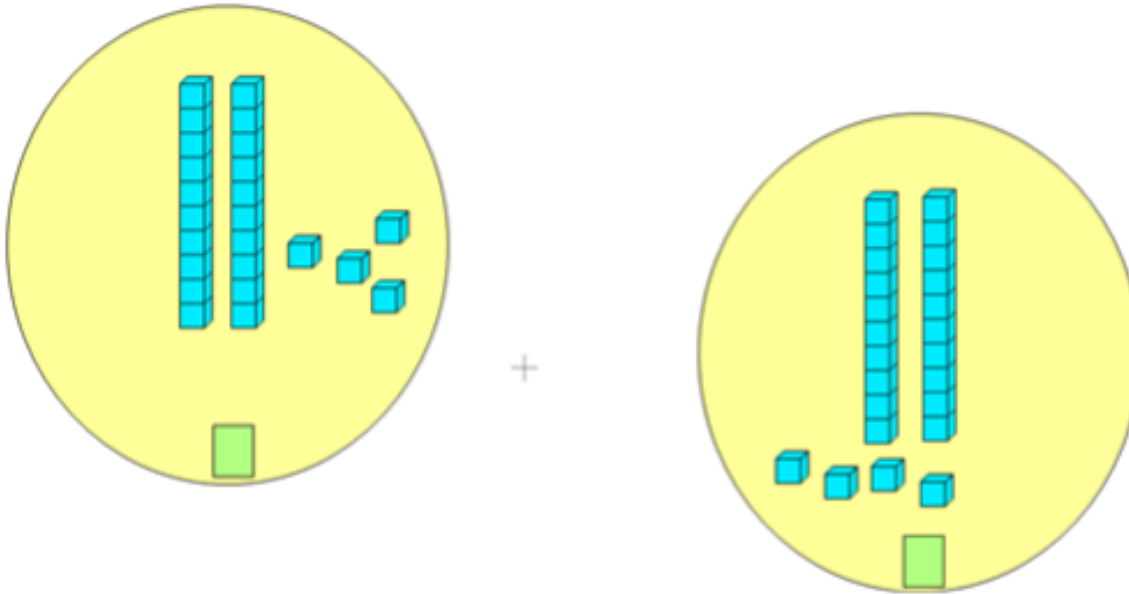
I subtract 8 from my total and I have nothing left over

I could put 4 more in each of the 2 groups

Learning Goal: Dividing larger numbers

Strategy: Long division using known multiplication facts

Find $48 \div 2 =$



$$\begin{array}{r} 2 \overline{) 48} \\ - 40 \\ \hline 8 \\ - 8 \\ \hline 0 \end{array}$$

2 groups

20×2

4×2

24

An arrow points from the number 24 to the text below.

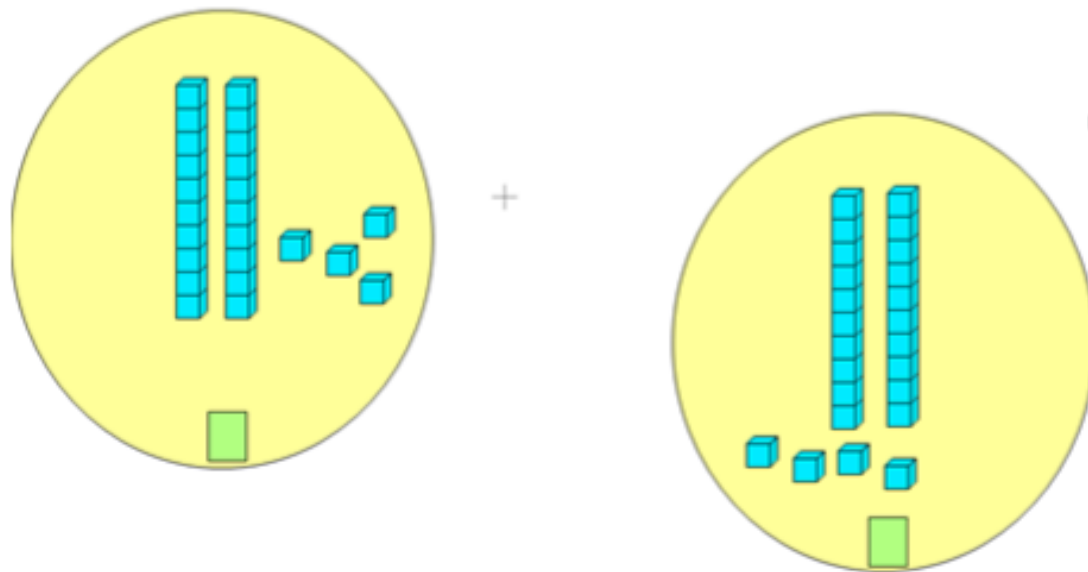
I add up how many I have put in each group.

I have 24 in each group.

Learning Goal: Dividing larger numbers

Strategy: Long division using known multiplication facts

Find $48 \div 2 = 24$



$$\begin{array}{r} 24 \\ 2 \overline{) 48} \\ \underline{- 40} 20 \times 2 \\ 8 \\ \underline{- 8} 4 \times 2 \\ 0 24 \end{array}$$

My answer, then, is $48 \div 2 = 24$